

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF PROJECT : MODIFIED ESTIMATE FOR THE WORK OF CONSTRUCTION OF SNUDEHYA BHAVANA AND GYM AT YELAHANKA OLD TOWN IN WARD NO.1

Est.Cost.Rs.							9937552.54	
Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
1) Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20.								
work item	sqm	2	7.50	3.00	0.20	9.00		
						9.00	370.00	3330.00
Total/Grand Rates								
2) Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. Prestressed / Reinforced cement concrete grade M-20 & above.								
work item	Cum	2	7.50	3.00	0.15	6.75		
						6.75	900.00	6075.00
Total/Grand Rates								
3) Dismantling Mangalore tiles roof and stacking the material within a radius of 50 meters. with reepers .								
work item	sqm	1	25.00	7.50		187.50		
						187.50	50.00	9375.00
Total/Grand Rates								
4) Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications iv) Dismantling wood work wrought iron and fixed in frames of trusses upto a Height of 5m above Plinth Level								
work item	cum	26	7.50	0.15	0.15	4.39		
work item		1	25.00	0.15	0.15	0.56		
						4.95	460.00	2277.00
Total/Grand Rates								
5) Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications Dismantling brick/Tile work B. In cement mortar.								
work item	cum	1	120.50	0.23	3.00	81.34		
work item		1	25.00	0.23	2.44	13.72		
work item		1	31.00	0.20	1.80	11.16		
						106.22	320.00	33989.44
Total/Grand Rates								
6) Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. Rubble stone masonry in cement mortar								
work item	cum	1	120.50	0.45	0.60	32.54		
work item		1	31.00	0.45	0.45	6.28		

						38.81		
Qty to be reused 40%=18.03						18.03		
						20.78	240.00	4987.80
Grand Total Rates								
Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms).								
	sqm	6	4.17	5.70		142.61		
		2	3.00	7.50		45.00		
						187.61	100.00	18761.40
Grand Total Rates								
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edge of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
Excavation (C)	cum	9	3.71	3.71	1.50	185.82		
(C)		5	3.30	3.30	1.50	81.68		
(C)		2	2.90	2.00	1.50	17.40		
(C)		1	3.86	2.20	1.50	12.74		
(C)		1	8.46	2.30	1.50	29.19		
(C)		1	5.80	3.33	1.50	28.97		
Trenches in B/W 1-7		1	9.89	0.75	0.55	4.08		
Trenches in B/W A-B		2	1.09	0.75	0.55	0.90		
Trenches in B/W 2-5		1	4.90	0.75	0.55	2.02		
Trenches in B/W 1-3		1	4.60	0.75	0.55	1.90		
Trenches in B/W G-K		2	2.64	0.75	0.55	2.18		
Trenches in B/W 3-7		1	1.10	0.75	0.55	0.45		
Removal		1	3.00	3.00	2.20	19.80		
						387.12	360.00	139361.66
Grand Total Rates								
Paving and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.								
Excavation (C)	cum	9	3.71	3.71	0.30	37.16		
(C)		5	3.30	3.30	0.30	16.34		
(C)		2	2.90	2.00	0.30	3.48		
(C)		1	3.86	2.20	0.30	2.55		
(C)		1	8.46	2.30	0.30	5.84		
(C)		1	5.80	3.33	0.30	5.79		
						71.16		
Excavation (C)						59.30	2100.00	124530.00
Excavation (C)	47.44							
Excavation (C)	11.86							
Total	59.30							
Grand Total Rates	2100.00							
Excavation (C)						11.86	2310.24	27399.49
Excavation (C)	71.16							
Excavation (C)	59.30							
Excavation (C)	11.86							
Excavation (C)	2013.00							
Excavation (C)	120.78							
Excavation (C)	2133.78							
Excavation (C)	176.46							
Total	2310.24							

Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone-hammered dressed in courses not less than 20 cms high, bond stones at two m.apart in each course including cost of materials, labour, curing complete as per specifications.

Estt. SW 4-B (step 1)	cum	2	4.00	0.60	0.60	2.88		
Step 2		2	4.00	0.45	0.40	1.44		
Estt. SW 5-C (step 1)		2	3.60	0.60	0.60	2.59		
Step 2		2	3.60	0.45	0.40	1.30		
Estt. SW 6-D (step 1)		2	3.60	0.60	0.60	2.59		
Step 2		2	3.60	0.45	0.40	1.30		
Estt. SW 7-E (step 1)		2	3.40	0.60	0.60	2.45		
Step 2		2	3.40	0.45	0.40	1.22		
Estt. SW 8-F (step 1)		2	3.40	0.60	0.60	2.45		
Step 2		2	3.40	0.45	0.40	1.22		
Estt. SW 9-G (step 1)		1	3.40	0.60	0.60	1.22		
Step 2		1	3.40	0.45	0.40	0.61		
Estt. SW 10-H (step 1)		1	3.20	0.60	0.60	1.15		
Step 2		1	3.20	0.45	0.40	0.58		
Estt. SW 11-I (step 1)		1	8.58	0.60	0.60	3.09		
Step 2		1	8.58	0.45	0.40	1.54		
Estt. SW 12-J (step 1)		1	2.20	0.60	0.60	0.79		
Step 2		1	2.20	0.45	0.40	0.40		
Estt. SW 13-K (step 1)		1	7.60	0.60	0.60	2.74		
Step 2		1	7.60	0.45	0.40	1.37		
Estt. SW 14-L (step 1)		1	2.20	0.60	0.60	0.79		
Step 2		1	2.20	0.45	0.40	0.40		
Estt. SW 15-M (step 1)		1	4.00	0.40	0.40	0.64		
Step 2		1	5.00	0.60	0.40	1.20		
Estt. SW 16-N (step 1)		1	5.00	0.40	0.40	0.80		
Step 2		1	4.00	0.40	0.40	0.64		
Estt. SW 17-O (step 1)		1	13.00	0.60	0.40	3.12		
Step 2		1	13.00	0.45	0.40	2.34		
Sub Total						42.86		
Provisional 1%	23.60					29.50	5200.00	153400.00
Provisional 2%	5.90							
Total	29.50							
Grand Total	5200.00							
Sub Total						13.36	4394.40	58696.85
Provisional 1%	42.86							
Provisional 2%	29.50							
Total	13.36							
Grand Total	3829.00							
Provisional 1%	229.74							
Total	4058.74							
Grand Total	335.66							
Total	4394.40							

Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, stone-hammered dressed in courses not less than 15 cms high, bond stones at two m.apart in each course including cost of materials, labour, curing complete as per specifications.

Item not operated

Providing and laying in position plain cement concrete of mix 1:4:8 (M7.5) with OPC cement @ 180kgs. with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, using complete as per specifications							
Footings C1	cum	9	3.71	3.71	0.15	18.58	
C1		5	3.30	3.30	0.15	8.17	
C2		2	2.90	2.00	0.15	1.74	
C3		1	3.86	2.20	0.15	1.27	
C4		1	8.46	2.30	0.15	2.92	
C5		1	5.80	3.33	0.15	2.90	
Trenches in B/W 1-7		1	9.89	0.45	0.15	0.67	
Trenches in B/W A-B		2	1.09	0.45	0.15	0.15	
Trenches in B/W 2-5		1	4.90	0.45	0.15	0.33	
Trenches in B/W 1-3		1	4.60	0.45	0.15	0.31	
Trenches in B/W G-K		2	2.64	0.45	0.15	0.36	
Trenches in B/W 3-7		1	1.10	0.45	0.15	0.07	
Plinth area		1	28.00	13.80	0.15	57.96	
Slab Area		1	3.00	3.00	0.15	1.35	
Flagging Concrete all around Plinth area							
Northern Side		1	34.30	2.05	0.15	10.55	
Southern Side		1	34.30	2.00	0.15	10.29	
Eastern Side		1	14.20	2.55	0.15	5.43	
Western side		1	14.20	3.60	0.15	7.67	
TOTAL						130.71	
10% above 125%						105.46	5850.00
Excavated Qty	84.37						616955.63
125% above 125%	21.09						
Total	105.46						
10% above 125%	5850.00						
10% above 125%						25.25	5388.27
Excavated Qty	130.71						
10% above 125%	105.46						
Excavated Qty	25.25						
125% above 125%	4695.00						
10% above 125%	281.70						
10% above 125%	4976.70						
10% above 125%	411.57						
Total	5388.27						
125% Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 cm. and lift upto 1.5 m. including cost of all labour complete as per specifications.							
Filling in foundations							
Excavated earth quantity	Cum	From SL no 1				387.12	
Excavated Below PCC							
C1	cum	9	3.71	3.71	0.30	37.16	
C2		5	3.30	3.30	0.30	16.34	
C3		2	2.90	2.00	0.30	3.48	
C4		1	3.86	2.20	0.30	2.55	
C5		1	8.46	2.30	0.30	5.84	
C6		1	5.80	3.33	0.30	5.79	
PCC Below Footings C1	cum	9	3.71	3.71	0.15	18.58	
C1		5	3.30	3.30	0.15	8.17	

CG		2	2.90	2.00	0.15	1.74		
CG1		1	3.86	2.20	0.15	1.27		
CG2		1	8.46	2.30	0.15	2.92		
CG3		1	5.80	3.33	0.15	2.90		
Deep Area		1	3.00	3.00	0.15	1.35		
		2	2.20	0.15	2.05	1.35		
		2	1.90	0.15	2.05	1.17		
		1	2.20	2.20	0.20	0.97		
Footings								
CG		9	3.71	3.71	0.65	80.52		
CG		5	3.30	3.30	0.60	32.67		
CG		2	2.90	2.00	0.40	4.64		
CG1		1	3.86	2.20	1.05	8.92		
CG2		1	8.46	2.30	0.65	12.65		
CG3		1	5.80	3.33	1.00	19.31		
Column below GL						0.00		
CG		9	0.40	0.60	0.40	0.86		
CG		5	0.40	0.60	0.45	0.54		
CG		2	0.40	0.60	0.65	0.31		
CG		1	0.40	0.60	0.35	0.08		
CG		1	0.40	0.60	0.35	0.08		
CG		2	0.40	0.60	0.45	0.22		
L&L		2	2.20	0.20	1.70	1.50		
L&L		2	1.80	0.20	1.70	1.22		
CG2 Beam		1	8.46	0.40	0.70	2.37		
CG3 Beam		1	5.80	0.60	0.55	1.91		
						279.39		
						107.73	250.00	26932.31
Tender Quoted Rates								
244 Construction of embankment with approved material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 200-2 complete as per specifications.(which includes cost of gravel / murum, watering charges & compaction by vibratory roller)								
Filling of Site Area								
(N/S)	Cum	1	34.30	2.05	0.60	42.19		
(S/S)		1	34.30	2.00	0.60	41.16		
(W/S)=5.80+2.10/2=2.55		1	14.20	2.55	0.60	21.73		
(W/S)=3.80+3.65+3.35/3=3.40		1	14.20	3.60	0.60	30.67		
Inside Area		1	28.00	13.80	0.60	231.84		
Building Area		1	28.00	13.80	0.30	115.92		
						483.51		
As Qty upto 125%						46.60	420.00	19572.00
Excessd Qty	37.28							
125% Extra Qty	9.32							
Total	46.60							
Tender Quoted Rates	420.00							
As Qty above 125%						436.91	330.53	144409.41
Excessd Qty	483.51							
Deduct upto 125%	46.60							
Balance Qty	436.91							
Cost at 2015-16	288.00							
Area Weightage=6%	17.28							
Sub Total	305.28							
Area 0.27 % Above as TP	25.25							

Total	330.53							
15. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.								
Foundings C1	Sqm	9	14.84		0.65	86.81		
C2		5	13.20		0.60	39.60		
C3		2	9.80		0.40	7.84		
C4		1	12.12		0.30	3.64		
C5		1	21.52		0.30	6.46		
C6		1	18.26		0.35	6.39		
L81		2	4.80		1.70	16.32		
L82		2	4.00		1.70	13.60		
C7_beam		1	12.38		0.70	8.67		
C8_beam		1	18.10		0.55	9.96		
						199.28	240.00	47826.72
Tender Quoted Rates Rs.240.00								
16. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.								
PLINTH BEAM								
PB1 Grid 1-3		2	8.58		0.60	10.30		
PB2 Grid 2-5		2	7.60		0.40	6.08		
PB3 Grid C-D		4	3.50		0.40	5.60		
PB4 Grid D-E		4	3.50		0.40	5.60		
PB5 Grid E-F		4	3.50		0.40	5.60		
PB6 Grid F-H		2	3.50		0.40	2.80		
PB7 Grid H-K		2	3.20		0.40	2.56		
PB8 Grid F-G		2	1.71		0.40	1.37		
PB9 Grid G-K		4	5.05		0.40	8.08		
PB10 Grid 3-7		4	3.80		0.40	6.08		
PB11 Grid A-B		4	4.00		0.40	6.40		
PB12 Grid B-C		4	3.50		0.40	5.60		
PB13 Grid 1-2		2	2.30		0.40	1.84		
PB14 Grid 5-7		2	2.30		0.40	1.84		
Grid B/W 1-7		2	13.40		0.40	10.72		
Cross Walls		2	4.60		0.40	3.68		
Cross Walls		2	10.00		0.40	8.00		
						92.14	290.00	26721.76
Tender Quoted Rates Rs.290.00								
17. Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification.								
Column below GL								
C1	Cum	9	2.00		1.00	18.00		
C2		1	2.00		1.00	2.00		
C3		5	2.00		1.05	10.50		
C4		2	2.00		1.05	4.20		
C5		2	2.00		1.25	5.00		
C6		1	2.00		1.25	2.50		
Columns upto beam bottom								
C7		10	2.00		2.65	53.00		
C8		7	2.00		2.90	40.60		
C9		3	2.00		3.20	19.20		
C10		4	0.80		3.20	10.24		

						165.24	380.00	62791.20
Tender Quoted Rates Rs.380.00								
First floor								
Columns upto beam bottom								
C1	Cum	10	2.00		2.90	58.00		
C2		7	2.00		3.20	44.80		
C3		3	2.00		3.20	19.20		
C4		4	1.20		3.45	16.56		
C1(Parapet height)		10	2.00		1.20	24.00		
C2		7	2.00		1.20	16.80		
C3		3	2.00		1.20	7.20		
C4		4	1.20		1.20	5.76		
						192.32		
At Qty upto 125%						184.10	380.00	69958.00
Standard Qty	147.28							
125% Extra Qty	36.82							
Total	184.10							
Tender Quoted Rates	380.00							
At Qty Above 125%						8.22	407.42	3348.99
Standard Qty	192.32							
Deduct upto 125%	184.10							
Balance Qty	8.22							
ESR of 2015-16	355.00							
Less Weightage-6%	21.30							
Net Total	376.30							
With 0.27 % Above as TP	31.12							
Total	407.42							
Tender Quoted Rates								
128 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness 200 mm including cost of all materials, labour complete as per specification.								
Ground floor roof Slab	Sqm	1	28.00	13.80		386.40		
Slump Top Slab	Sqm	1	1.95	1.95		3.80		
Deduction						390.20		
Lift and staircase area	Sqm	1	4.61	3.35		15.44		
						374.76	300.00	112427.70
Tender Quoted Rates Rs.300.00								
First floor roof Slab	Sqm	1	28.00	13.80		386.40		
Deduction								
Lift and staircase area	Sqm	1	4.61	3.35		15.44		
						370.96	310.00	114996.52
Tender Quoted Rates Rs.310.00								
129 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications								
Ground floor roof Beams								
B1	Sqm	2	13.80		0.45	12.42		
B2		10	13.80		0.75	103.50		
B3		2	8.58		0.45	7.72		
B4		2	5.00		0.45	4.50		
B5		2	4.00		0.45	3.60		
B6		2	5.00		0.45	4.50		
B7		2	4.00		0.45	3.60		

BH		2	8.58		0.45	7.72		
BS		2	28.40		0.25	14.20		
BUD		2	28.40		0.25	14.20		
Lift Beam		4	2.05		0.40	3.28		
		4	2.20		0.40	3.52		
Lintels		4	14.20		0.30	17.04		
		6	17.50		0.30	31.50		
						231.30		
Deductions								
Columns		6	0.60		0.45	1.62		
		8	0.60		0.45	2.16		
		2	0.40		0.45	0.36		
						4.14		
						227.16	260.00	59062.64
Tender Quoted Rates Rs.260.00								
First floor roof Beams								
BH	Sqm	2	13.80		0.45	12.42		
BS		10	13.80		0.75	103.5		
BS		2	8.58		0.45	7.72		
BS		2	5.00		0.45	4.5		
BS		2	4.00		0.45	3.60		
BS		2	5.00		0.45	4.5		
BS		2	4.00		0.45	3.6		
BS		2	8.58		0.45	7.72		
BS		2	28.40		0.25	14.2		
BUD		2	28.40		0.25	14.2		
Lift Beam		4	2.05		0.40	3.28		
		4	2.20		0.40	3.52		
Lift Beam at lift room level		4	2.05		0.40	3.28		
		4	2.20		0.40	3.52		
Through Lintel		4	28.50		0.30	34.20		
		4	14.20		0.30	17.04		
		2	4.20		0.30	2.52		
		2	5.25		0.30	3.15		
		4	4.40		0.30	5.28		
		4	3.00		0.30	3.60		
		4	2.70		0.30	3.24		
						258.59		
Deductions								
Columns		8	0.40		0.30	0.96		
		8	0.60		0.30	1.44		
		6	0.60		0.30	1.08		
		10	0.40		0.30	1.20		
		6	0.60		0.30	1.08		
		4	0.60		0.30	0.72		
		4	0.40		0.30	0.48		
						6.96		
						251.63	270.00	67941.18
Tender Quoted Rates Rs.270.00								
Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification.								
Ground floor Staircase								

Waist slab bottom	Sqm	1	8.80	1.20		10.56		
Waist slab side faces		2	8.80		0.35	6.16		
Finishes		24		1.20	0.15	4.32		
						21.04	480.00	10099.20
Tender Quoted Rates Rs.480.00								
First floor Staircase								
Waist slab bottom	Sqm	1	9.38	1.20		11.25		
Waist slab side faces		2	9.38		0.35	6.56		
Finishes		26		1.20	0.15	4.68		
						22.49	650.00	14620.13
Tender Quoted Rates Rs.650.00								
21 Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. , including edges including cost of all materials, labour complete as per specification.								
Ground floor								
Chejja Ground floor								
Window W1	Sqm	8	2.10	0.45		7.56		
Front Side		8	2.10		0.10	1.68		
Sides		16	0.45		0.10	0.72		
W2		2	1.80	0.45		1.62		
Front Side		2	1.80		0.10	0.36		
Sides		4	0.45		0.10	0.18		
W3		1	1.90	0.45		0.86		
Front Side		1	1.90		0.10	0.19		
Sides		2	0.45		0.10	0.09		
W4		1	2.70	0.45		1.22		
Front Side		1	2.70		0.10	0.27		
Sides		2	0.45		0.10	0.09		
						14.83	280.00	4152.40
Tender Quoted Rates Rs.280.00								
First floor								
W1	Sqm	10	2.10	0.45		9.45		
Front Side		10	2.10		0.10	2.10		
Sides		20	0.45		0.10	0.90		
W2		2	1.50	0.45		1.35		
Front Side		2	1.50		0.10	0.30		
Sides		4	0.45		0.10	0.18		
W3		2	1.85	0.45		1.67		
Front Side		2	1.85		0.10	0.37		
Sides		4	0.45		0.10	0.18		
Ventilator V		2	1.15	0.45		1.04		
Front Side		2	1.15		0.10	0.23		
Sides		4	0.45		0.10	0.18		
						16.50	270.00	4453.65
Tender Quoted Rates Rs.270.00								
22 Providing and laying in Mat for RCC roof at below the steel for avoiding concrete cement slurry as per the requirement of Engineer incharge.								
Ground floor roof Slab	Sqm	1	28.00	13.80		386.40		
First floor roof Slab		1	28.00	13.80		386.40		
						772.80	60.00	46368.00
Tender Quoted Rates Rs.60.00								